




**HUBBELL ELECTRICAL PRODUCTS**  
 A Division of HUBBELL INC. (Delaware)  
 3940 Martin Luther King Drive  
 St. Louis, Missouri 63113 USA

**INSTALLATION, OPERATION & MAINTENANCE DATA SHEET**  
**SERIES KBQA Flame Arrestor - Breather Drain**  
 For Use In Classified Hazardous Locations

 **US CSA17.70082091X**

 **SIRA 10ATEX1351U**  
**IECEX CSA 10.0007U**



**KBQA 1/2" NPT**

**General Safety Information:**

**CAUTION:** Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code.

Make sure that the circuit is De-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

**Important:** Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

Technical information, advice and recommendations contained in these documents is based upon information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use only by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of Killark, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.

**Product Description**

KBQA Series Nomenclature :

KBQA	AL	0	050
I	II	III	IV

I – Series Designator

II – Material Type

AL = Aluminum

S6 = 316 Stainless Steel

III – Plating

0 = Unplated

IV = Thread Form

050 = 1/2 inch NPT

**Application Information**

The Series KBQA Flame-Arrestor Breather Drains are suitable for use in Zone-Classified or Division-Classified Hazardous Areas. They are intended for installation in threaded flamepath openings in "Ex db" Flameproof Safety and/or "Ex tb" Dust-ignition protected metal enclosures, as well as Class I Explosion-proof and Class II Dust-ignition proof metal enclosures.

DO NOT use this product in explosive atmospheres containing acetylene gas.

They are suitable for use in enclosures rated NEMA/Type 3, 4, 4X and IP66. When selecting a location for a drain, the opening should be as close as possible to the lowest point on the enclosures interior, to ensure maximum drainage.

**Corrosion Resistance:** Aluminum & 316 stainless steel breather-drain arrestor with suffix "S6" are rated Type 3/4/4X.





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**Installation Instructions:**

- Before installing, apply lubricant (such as Killark's LUBG-6 thread lubricant) to the threads. Install fitting in the proper threaded opening and wrench tighten.
- Installation of the product should only be carried out by personnel trained in cable gland installation.
- Be sure to verify the fitting is properly bonded to the enclosure after installation.

**Gauging:**

For thru-wall connection of 1/2-14 NPT fittings, gauge the opening from flush to 2 turns past the notch.

**Maintenance:**

These fittings require no maintenance other than a periodic inspection for clogs or damage. Clogs can be cleared with compressed air. If the fitting is damaged or broken, it should be replaced entirely.

**Disposal:**

Observe the national standard or directive for refuse disposal.

**Certification Information**

**Operating Temperature Range:**

-60°C ≤ T ambient ≤ +200°C (NPT thread)

**North American Ratings:** CSA 17.70082091X

Class I, Zone 1 AEx db IIB+H2 Gb (with Enclosures up to 28 Liters) (U.S.)

Ex db IIB Gb (with Enclosures up to 160 Liters) (U.S.)

Zone 21 AEx tb IIIC Db IP66 (U.S.)

Ex db IIB+H2 Gb U (with Enclosures up to 28 Liters) (CAN)

Ex db IIB Gb (with Enclosures up to 160 Liters) (CAN);

Zone 21 Ex tb IIIC Db U IP66 (CAN)


Class I, Groups B,C,D (with Enclosures up to 28 Liters)

Class I, Groups C,D (with Enclosures up to 160 Liters)

Class II, Groups E,F,G; Class III

Type 3/4/4X

**ATEX Ratings:** SIRA 10 ATEX 1351U

0518  II 2GD

Ex db IIB+H2 Gb (with Enclosures up to 28 Liters)

Ex db IIB Gb (with Enclosures up to 160 Liters)

Ex tb IIIC Db IP66

**IECEx Ratings:** IECEx CSA 10.0007U

Ex db IIB+H2 Gb (with Enclosures up to 28 Liters)

Ex db IIB Gb (with Enclosures up to 160 Liters)

Ex tb IIIC Db IP66

**Schedule of Limitations / Conditions of Safe Use:**

- 1) The operating temperature range of the flame-arrestor breather drain is (-60°C) to (+200°C) and shall not be exceeded.
- 2) These devices have been evaluated for use in enclosures with maximum internal volume of 1709 cubic inches (28 Liters).
- 3) The maximum recorded surface temperature : KBQA NPT: 150.7°C (Gas Group IIB+H2)

